

VAN WATERS AND ROGERS INC., UNIVAR CORP. -- HYDROCHLORIC ACID -- 6810-00-236-5665

===== Product Identification =====

Product ID:HYDROCHLORIC ACID

MSDS Date:12/04/1990

FSC:6810

NIIN:00-236-5665

MSDS Number: BPXDC

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC., UNIVAR CORP.

Address:1600 NORTON BLDG. 801 2ND AVENUE

City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Info Phone Num

:CALL LOCAL VAN WATERS & ROGERS

Emergency Phone Num:206-447-5911/800-424-9300(CHEMTREC)

CAGE:87664

=== Contractor Identification ===

Company Name:PIONEER CHEMICAL INC

Address:115 SOUTH SHERRIN AVE; SUITE 3 & 4

Box:City:LOUISEVILLE

State:KY

ZIP:40210

Country:US

Phone:502-895-9889

CAGE:8X332

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==== Composition/Information on Ingredients =====

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS:7647-01-0

RTECS #:MW4025000

Fraction by Wt: 31.5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:C 5 PPM

ACGIH TLV:C 5 PPM; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: BALANCE

==== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RABBIT) = 900 MG/KG

Routes of Ent

ry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: CORROSIVE! INHALATION:COUGHING, CHOKING, & INFLAMATION OF THE RESPIRATORY TRACT. INGESTION:BURNS TO MOUTH & G.I. TRACT. EYE:SEVERE BURNS & DAMAGE. SKIN:SEVERE BURNS AND DEEP ULCERS & DISCOLORIN G OF SKIN. CHRONIC:EROSION OF TEETH, DERMATITIS, RESPIRATORY ILLNESS.

Effects of Overexposure:INFLAMATION/BURNS OF THE NOSE, THROAT, UPPER RESPIRATOR

Y TRACT, EYES, SKIN AND MUCOUS MEMBRANES. VERY CORROSIVE AND CAN CAUSE SEVERE BURNS AND DAMAGE TO EYES.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

==== First Aid Measures =====

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WI

TH PLENTY OF WATER

FOR 15 MINUTES HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DRINK 2-4 GLASSES OF WATER. GET IMMEDIATE MEDICAL HELP.

===== Fire Fighting Measures =====

Flash Point: NONE

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &

FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: CONTACT WITH COMMON METALS MAY FORM EXPLOSIVE HYDROGEN GAS

===== Accidental Release Measures =====

Spill Release Procedures: SMALL SPILL: MOP/WIPE UP AND DISPOSE IN CONTAINER. SEWER NEUTRALIZED MATERIAL WITH EXCESS WATER. LARGE SPILL: EVACUATE AND VENTILATE AREA. IF POSSIBLE, STOP

LEAK. DIKE TO

RETAIN RUN OFF., RECOVER OR NEUTRALIZE & PICK UP WITH ABSORBENT MATERIAL.

Neutralizing Agent: SODA ASH, LIME OR OTHER SUITABLE ALKALINE MATERIAL.

===== Handling and Storage =====

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE & DIRECT SUNLIGHT.

Other Precautions: DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID

PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. WEAR PROTECTIVE EQUIPMENT DURING SPILL CLEAN UP.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH APPROVED FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR OR A SUPPLIED AIR FULL FACEPIECE RESPIRATOR OR AIRLINED HOOD.

Ventila

tion:A SYSTEM OF LOCAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE TLV.

Protective Gloves:NEOPRENE OR RUBBER GLOVES

Eye Protection:CHEMICAL SAFETY GOGGLES WITH FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

IMPERVIOUS BOOTS, APRON, OR COVERALLS AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS. PROTECT FROM MOISTURE. ALWAYS WEAR PROTECTIVE EQUIPMENT WHEN HANDLING LARGE QUANTITIES OF ACID.

===== Physical/Chemical Properties =====

HCC:C1

Boiling Pt:B.P. Text:150F,66C

Vapor Pres:30

Spec Gravity:1.16

pH: